



SEQUENCE LISTING

<111> Handfield, Martin
Brady, Jeannine
Progulske-Fox, Ann
Hillman, Jeffrey D.

<120> Microbial Polynucleotides Expressed During Infection of
a Host

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<150> 60/147,551
<151> 1999-08-06

<150> PCT/US00/21340
<151> 2000-08-04

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<170> PatentIn Ver. 2.1

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c t g a a c c g g t t c g c a c a g g t t g t t g g c g g a c g c a t c g g a a a g a t t t g a c g c a a c t g c a a 180
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a c g g c g t t g g a t c g c g a g c t g g t a a t g t t g a a a a c t g a a a a a c g a g a a g a a a a a c a g g a 480
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c c g c a a g c g c c g c t t c a g t t n c t t a a c c t t g g t g a a g c c g n t g t a t t c c g t c a t t g g 660
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g g g c g a t g a t g t g c t a t t t c c g c a c g g t c g c g g c a g c a t t t g a a g g g c g t c a t c t g g g 840
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g g t a t g c g a t t g g t g c c g a a t t a c a c g c c a a t t a t t a g c a a a c a c g g a a a t t c t g a a 960
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 aaagcgctcg caagcgtaaa ttgcctgc当地 aacgttcgccc cgggggttgc当地 tggttgc当地 600
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 aataacccag ggggtggata atgtgc当地 tgccanaaaat ttccctgc当地 ggttaattt 720
 cngnggaaac ggggtttccg cggcagattt gcaagattt cc当地 cttggggtt cagttatggaa 780
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 atccaaacca gaaatgtt gggacttgc当地 ctttgc当地 ggtatangt 540

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 ccgatgtgcc ttacgaagaa ctgaaaaggca tttaaagtgtt ccatttgggc taccgttctt 540
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ttgccgcccga caccgattgc gatgccgagt gaagaggcgt tacaggcggt ggcacatccg 300
gcccggaaacgg cgttttatta ttctgtggca gacggcacgg gggacacaa attcagtcgt 360
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Ala Glu Ile Ala Ala Lys Val Ala Lys Glu Lys Tyr Asn Leu Asp Val
35 40 45

Glu Tyr Val Leu Phe Met Thr Thr Pro Cys Gln Thr Leu Gln Cys Leu
50 55 60

Lys Val Ile
65

<210> 16
<211> 85
<212> PRT
<213> *Actinobacillus actinomycetemcomitans*

<400> 16
Ile Lys Leu Val Ala Gln Gly Gln Arg Val Ala Asn Leu Pro Asp Ile
1 5 10 15

Leu Val Tyr Ala Arg Val Gly Asn Gly Met Val Gly Arg Arg Arg Gly
20 25 30

Leu Asn Gln Ala Lys Ala Glu Trp Arg Leu Phe Lys Leu Lys His His
35 40 45

Leu Gly Ile Gln Gly Phe Leu Ser Gly Leu Phe Thr Phe Val Leu Arg
50 55 60

Ser Gly Ala Arg Leu Leu Pro Thr Ser Leu Leu Lys Asn Ile Tyr Gln
65 70 75 80

Thr Phe Leu Arg Lys
85

<210> 17
<211> 152
<212> PRT
<213> Actinobacillus actinomycetemcomitans

<400> 17
Asp Arg Asn Lys Arg Ser Phe Tyr Ile Ser Ala Ala Arg Ser Glu Ile
1 5 10 15

Phe Asn Leu Ile Val Ala Lys Arg Ile Glu Leu Ser Leu Ala Gln Gln
20 25 30

Val Leu Asn Gly Asp Val Leu Gln Leu Asn Gly Ser His Ser Trp Phe
35 40 45

Val Ala Asp Ala Ser Glu Asp Leu Thr Gln Leu Gln Gln Arg Leu Ala
50 55 60

Gln Arg Asp Ile Leu Leu Thr Ala Pro Leu Ile Gly Glu Glu Asp Lys
65 70 75 80

Ser Ala Val Asp Phe Glu Asn Glu Ile Phe Val Ala His Gln Ala Leu
85 90 95

Phe His Leu Met Arg Gln Glu Arg Val Lys Ala Ala Arg Arg Pro Ile
100 105 110

Leu Met Gln Ala Gln Gln Phe Gln Trp Gln Phe Glu Pro Asn Gly Leu
115 120 125

Arg Leu Lys Phe Tyr Leu Pro Ala Gly Ser Tyr Ala Thr Ala Leu Val
130 135 140

Arg Glu Leu Val Asn Val Glu Asn
145 150

<210> 18
<211> 198
<212> PRT
<213> Actinobacillus actinomycetemcomitans

<220>
<221> UNSURE
<222> (43)
<223> Xaa stands for any amino acid.

<220>
<221> UNSURE
<222> (50)

<223> Xaa stands for any amino acid.

<220>

<221> UNSURE

<222> (59)

<223> Xaa stands for any amino acid.

<220>

<221> UNSURE

<222> (66)

<223> Xaa stands for any amino acid.

<220>

<221> UNSURE

<222> (69)

<223> Xaa stands for any amino acid.

<400> 18

Met Asn Ile Leu Leu Ser Asn Asp Asp Gly Ile His Ala Pro Gly Ile
1 5 10 15

Arg Val Met Arg Thr Leu Arg Lys Ile Ala Asn Val Thr Ile Val Ala
20 25 30

Pro Asp Ser Asn Arg Lys Arg Arg Leu Gln Xaa Leu Asn Leu Gly Glu
35 40 45

Ala Xaa Val Phe Arg Ser Phe Gly Lys Ala Xaa Ile Ile Ala Ser Thr
50 55 60

Ala Xaa Pro Ala Xaa Cys Val His Ile Ala Leu Thr Gly Phe Leu Ser
65 70 75 80

Gly Arg Ile Asp Leu Val Ile Ser Gly Ile Asn Ala Gly Ala Asn Leu
85 90 95

Gly Asp Asp Val Leu Tyr Ser Gly Thr Val Ala Ala Ala Phe Glu Gly
100 105 110

Arg His Leu Gly Leu Pro Ser Ile Ala Val Ser Leu Asp Gly Arg Gln
115 120 125

His Phe Glu Thr Ala Ala Arg Val Val Cys Asp Leu Val Pro Lys Leu
130 135 140

His Ala Gln Leu Leu Gly Lys His Glu Ile Leu Asn Ile Asn Val Pro
145 150 155 160

Asp Val Pro Tyr Glu Glu Leu Lys Gly Ile Lys Val Cys His Leu Gly
165 170 175

Tyr Arg Ser Ser Ala Ser Glu Val Ile Lys Gln Gln Ser Pro Arg Gly
180 185 190

Glu Asp Met Tyr Trp Ile
195

<210> 19
<211> 142
<212> PRT
<213> Actinobacillus actinomycetemcomitans

<400> 19

Asp Leu Pro Leu Ala Asn Pro Tyr Glu Met Leu Ile Leu Ala Ser Ile
1 5 10 15

Val Glu Lys Glu Thr Gly Ile Ala Ala Glu Arg Pro Gln Val Ala Ser
20 25 30

Val Phe Ile Asn Arg Leu Lys Ala Lys Met Lys Leu Gln Thr Asp Pro
35 40 45

Thr Val Ile Tyr Gly Met Gly Asp Asp Tyr Asn Gly Asn Ile Arg Lys
50 55 60

Lys Asp Leu Glu Thr Pro Thr Pro Tyr Asn Thr Tyr Val Ile Asp Gly
65 70 75 80

Leu Pro Pro Thr Pro Ile Ala Met Pro Ser Glu Glu Ala Leu Gln Ala
85 90 95

Val Ala His Pro Ala Gln Thr Ala Phe Tyr Tyr Phe Val Ala Asp Gly
100 105 110

Thr Gly Gly His Lys Phe Ser Arg Asn Leu Asn Glu His Asn Lys Ala
115 120 125

Val Gln Gln Tyr Leu Arg Trp Tyr Arg Glu Gln Asn Gly Lys
130 135 140

<210> 20
<211> 54
<212> PRT
<213> Actinobacillus actinomycetemcomitans

<400> 20

Met Val Gly Lys Phe Ile Val Ile Glu Gly Leu Glu Gly Ala Gly Lys
1 5 10 15

Ser Thr Ala His Gln Cys Val Val Asp Thr Leu Lys Thr Leu Gly Val
20 25 30

Gly Glu Val Ile Ser Thr Arg Glu Pro Gly Gly Thr Pro Val Gly Gly
35 40 45

Lys Ala Thr Pro Ser His
50